```
Connecting via Winsock to STN



Welcome to STN International!  Enter x:X

LOGINID:ssptasxs1626

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1          Web Page for STN Seminar Schedule - N. America
 NEWS  2  JAN 02  STN pricing information for 2008 now available
 NEWS  3  JAN 16  CAS patent coverage enhanced to include exemplified
                  prophetic substances
 NEWS  4  JAN 28  USPATFULL, USPAT2, and USPATOLD enhanced with new
                  custom IPC display formats
 NEWS  5  JAN 28  MARPAT searching enhanced
 NEWS  6  JAN 28  USGENE now provides USPTO sequence data within 3 days
                  of publication
 NEWS  7  JAN 28  TOXCENTER enhanced with reloaded MEDLINE segment
 NEWS  8  JAN 28  MEDLINE and LMEDLINE reloaded with enhancements
 NEWS  9  FEB 08  STN Express, Version 8.3, now available
 NEWS 10  FEB 20  PCI now available as a replacement to DPCI
 NEWS 11  FEB 25  IFIREF reloaded with enhancements
 NEWS 12  FEB 25  IMSPRODUCT reloaded with enhancements
 NEWS 13  FEB 29  WPINDEX/WPIDS/WPIX enhanced with ECLA and current
                  U.S. National Patent Classification
 NEWS 14  MAR 31  IFICDB, IFIPAT, and IFIUDB enhanced with new custom
                  IPC display formats
 NEWS 15  MAR 31  CAS REGISTRY enhanced with additional experimental
                  spectra
 NEWS 16  MAR 31  CA/CAplus and CASREACT patent number format for U.S.
                  applications updated
 NEWS 17  MAR 31  LPCI now available as a replacement to LDPCI
 NEWS 18  MAR 31  EMBASE, EMBAL, and LEMBASE reloaded with enhancements
 NEWS 19  APR 04  STN AnaVist, Version 1, to be discontinued
 NEWS 20  APR 15  WPIDS, WPINDEX, and WPIX enhanced with new
                  predefined hit display formats

 NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN Customer
  agreement.  Please note that this agreement limits use to scientific
  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *
```

FILE 'HOME' ENTERED AT 19:51:14 ON 21 APR 2008

=> file reg
COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION
FULL ESTIMATED COST | 0.21 | 0.21

FILE 'REGISTRY' ENTERED AT 19:51:23 ON 21 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 20 APR 2008 HIGHEST RN 1015905-22-2
DICTIONARY FILE UPDATES: 20 APR 2008 HIGHEST RN 1015905-22-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

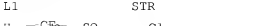
=>
Uploading C:\Documents and Settings\sshterengarts\My Documents\Sam's Documents\STN STRUCTURES\10519287.str

chain nodes :
1 2 3 4
chain bonds :
1-3 1-2 3-4
exact bonds :
1-3 1-2 3-4

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 exact full
FULL SEARCH INITIATED 19:51:39 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 25 TO ITERATE

100.0% PROCESSED 25 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L2 1 SEA EXA FUL L1

=> s l1 fam full
FULL SEARCH INITIATED 19:51:54 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 70 TO ITERATE

100.0% PROCESSED 70 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L3 1 SEA FAM FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 129.96 130.17

FILE 'CAPLUS' ENTERED AT 19:52:02 ON 21 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 21 Apr 2008 VOL 148 ISS 17
FILE LAST UPDATED: 20 Apr 2008 (20080420/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

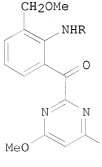
http://www.cas.org/infopolicy.html

=> s l2
L4 18 L2

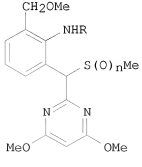
=> s l3
L5 18 L3

=> l4 and l5
L4 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

```
=> s l4 and l5
L6          18 L4 AND L5

=> d l6 1-18 ibib abs hitstr

L6   ANSWER 1 OF 18  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:          2006:410208  CAPLUS
DOCUMENT NUMBER:           144:450722
TITLE:                     Oxidation process for the preparation of phenyl
                           2-pyrimidinyl ketones and their corresponding sulfide
                           of sulfoxides
INVENTOR(S):               Araki, Koichi; Sato, Yoshitaka; Ford, Mark James
PATENT ASSIGNEE(S):        Bayer Cropscience AG, Germany
SOURCE:                    PCT Int. Appl., 19 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE:             Patent
LANGUAGE:                  English
FAMILY ACC. NUM. COUNT:    1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.          DATE
     ---------------     ----   --------    -------------------      --------
     WO 2006045612        A1    20060504    WO 2005-EP11531          20051028
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
             KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
             MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
             SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
             VN, YU, ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
             IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
             CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
             GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM
     JP 2006124347        A     20060518    JP 2004-317222           20041029
     EP 1807401           A1    20070718    EP 2005-806519           20051028
         R:  AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
             IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
     CN 101048387         A     20071003    CN 2005-80037325         20051028
     MX 200705171         A     20070622    MX 2007-5171             20070427
     KR 2007070200        A     20070703    KR 2007-709735           20070427
     US 20080004444       A1    20080103    US 2007-666496           20070427
PRIORITY APPLN. INFO.:                      JP 2004-317222      A    20041029
                                            WO 2005-EP11531     W    20051028
OTHER SOURCE(S):           CASREACT 144:450722; MARPAT 144:450722
GI
```



I



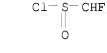
II

AB 2-Pyrimidinyl ketones [I; R = H, F2HCSO2; e.g., 2-[(4,6-dimethoxypyrimidin-2-yl)carbonyl]-6-methoxymethylaniline] or their salts are prepared in high yield and selectivity by the oxidation of the corresponding sulfides or sulfoxides [II; n = 0, 1; e.g., 2-[(4,6-dimethoxypyrimidin-2-yl)methylthiomethyl]-6-methoxymethylaniline] or their salts in the presence of hydrogen peroxide and acetic acid.

IT 1512-30-7, Difluoromethanesulfonyl chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of aminoaryl pyrimidyl ketones and [(aminoaryl)pyrimidyl] Me sulfoxides via oxidation of [(aminoaryl)pyrimidyl] Me sulfides)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:365461 CAPLUS
DOCUMENT NUMBER: 142:411075
TITLE: Environmentally friendly preparation of benzyl difluoromethyl sulfides
INVENTOR(S): Fujimoto, Shuichi; Hamada, Yusuke
PATENT ASSIGNEE(S): Ihara Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005112810	A	20050428	JP 2003-350882	20031009

PRIORITY APPLN. INFO.: JP 2003-350882 20031009
OTHER SOURCE(S): MARPAT 142:411075

AB The sulfides RnC6H5-nCH2SCHF2 (R = H, alkyl, halo, etc.; n = 1-5), useful as intermediates for difluoromethylsulfonylanilides as herbicides, are prepared by treatment of (RnC6H5-nCH2S)mX1 (R = same as above; X1 = alkali metal, alkaline earth metal; m = 1 when X1 = alkali metal; m = 2 when X1 = alkaline earth metal) with CHF2X2 (X2 = halo) in water-organic solvent two-phase systems. Thus, benzylthioronium hydrochloride was treated with KOH in the presence of Bu4N+Br- in C6H5Cl/H2O and treated with CHF2Cl to give 89.7% benzyl difluoromethyl sulfide.

IT 1512-30-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of benzyl difluoromethyl sulfides as intermediates for difluoromethylsulfonylanilide herbicides by sulfuration of halodifluoromethanes with benzylmercaptan metal salts in water-organic solvent two-phase systems)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:20652 CAPLUS
DOCUMENT NUMBER: 140:93680
TITLE: Method for synthesis of hydrogenofluoromethylenesulfonyl radical derivatives
INVENTOR(S): Saint-Jalmes, Laurent
PATENT ASSIGNEE(S): Rhodia Chimie, Fr.
SOURCE: PCT Int. Appl., 15 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004002951	A2	20040108	WO 2003-FR1940	20030624
WO 2004002951	A3	20040415		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2841551	A1	20040102	FR 2002-8090	20020628
FR 2841551	B1	20060113		
CA 2491207	A1	20040108	CA 2003-2491207	20030624
AU 2003260623	A1	20040119	AU 2003-260623	20030624
EP 1517888	A2	20050330	EP 2003-761633	20030624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1671657	A	20050921	CN 2003-817932	20030624
JP 2005531626	T	20051020	JP 2004-516858	20030624
US 20060178536	A1	20060810	US 2005-519287	20051125
PRIORITY APPLN. INFO.:			FR 2002-8090 A	20020628
			WO 2003-FR1940 W	20030624

OTHER SOURCE(S): CASREACT 140:93680

AB A process for the synthesis of hydrogenofluoromethylenesulfonyl radical derivs. is disclosed. The process comprises: i. condensing a thiolate (that is a monoalkyl sulfide salt) with a compound having a sp3 hybridized carbon bearing a hydrogen, a fluorine, a heavy halogen selected among chlorine, bromine and iodine and an electron-attracting group (σp is not less than 0.2) and ii. oxidation of the resulting sulfide. For instance, benzylmercaptan is alkylated with R 22 (Na, 1,2,4-trichlorobenzene, several conditions evaluated) and the resulting sulfide oxidized (C12) to give difluoromethanesulfonyl chloride. The invention is applicable to the synthesis of various compds. having a sulfinyl or sulfonyl group.

IT 1512-30-7P, Difluoromethanesulfonyl chloride
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP

(Preparation)
(method for synthesis of hydrogenofluoromethylenesulfonyl radical derivs.)
RN 1512-30-7 CAPLUS
CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2001:137607 CAPLUS
DOCUMENT NUMBER: 134:252430
TITLE: Predicting the reactivity of fluorinated compounds with copper using semi-empirical calculations
AUTHOR(S): Heaton, C. A.; Miller, A. K.; Powell, R. L.
CORPORATE SOURCE: School of Pharmacy and Chemistry, Liverpool John Moores University, Liverpool, L3 3AF, UK
SOURCE: Journal of Fluorine Chemistry (2001), 107(1), 1-3
CODEN: JFLCAR; ISSN: 0022-1139
PUBLISHER: Elsevier Science S.A.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Both electron affinities and LUMO energies have been useful predictors of the reactivity of a series of fluorinated halides with copper. They were calculated using the semi-empirical PM3 method.
IT 1512-30-7, Difluoromethanesulfonyl chloride
RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
(predicting reactivity of fluorinated compds. with copper using semi-empirical calcns.)
RN 1512-30-7 CAPLUS
CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)

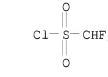
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:644993 CAPLUS
DOCUMENT NUMBER: 133:309596
TITLE: Gas phase structures and conformations of trifluoromethanesulfonyl fluoride, CF3SO2F, difluoromethanesulfonyl fluoride, CHF2SO2F, and difluoromethanesulfonyl chloride, CHF2SO2Cl
AUTHOR(S): Haist, R.; Trautner, F.; Mohtasham, J.; Winter, R.; Gard, G. L.; Oberhammer, H.
CORPORATE SOURCE: Institut fur Physikalische und Theoretische Chemie, Universitat Tubingen, Tubingen, 72076, Germany
SOURCE: Journal of Molecular Structure (2000), 550-551, 59-65
CODEN: JMOSB4; ISSN: 0022-2860

PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The gas phase structures of CF3SO2F, CHF2SO2F, and CHF2SO2Cl have been studied by gas electron diffraction (GED) and quantum chemical calcns. (HF/6-31G* and B3LYP/6-31G*). The two compds. CHF2SO2X (X=F or Cl) exist in the gas phase as mixts. of trans and gauche conformers (C-H bond trans or gauche to S-X bond). In the case of CHF2SO2F the gauche conformer prevails (84(17)%), whereas for the chlorine derivative the trans form is the major component (69(9)%). These compns. are reasonably well reproduced by both computational methods. The S-C bond lengths (1.835(5) A in CF3SO2F, 1.822(5) A in CHF2SO2 F and 1.846(5) A in CH2FSO2Cl) are compared to those in other sulfonyl derivs.

IT 1512-30-7, Difluoromethanesulfonyl chloride
RL: PRP (Properties)
(gas phase structures and conformations of fluoromethanesulfonyl fluorides and chlorides)
RN 1512-30-7 CAPLUS
CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

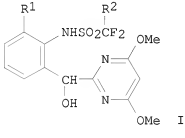
L6 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:98529 CAPLUS
DOCUMENT NUMBER: 132:151829
TITLE: Di- or tri-fluoromethanesulfonyl anilide derivatives, process for the preparation of them and herbicides containing them as the active ingredient
INVENTOR(S): Yoshimura, Takumi; Nakatani, Masao; Tamaru, Masatoshi; Danjo, Takeshi; Ono, Yukimasa; Yanagisawa, Katsutada
PATENT ASSIGNEE(S): Ihara Chemical Industry Co., Ltd., Japan; Kumiai Chemical Industry Co., Ltd.
SOURCE: PCT Int. Appl., 43 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000006553	A1	20000210	WO 1999-JP4043	19990728
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
JP 2000044546	A	20000215	JP 1998-214635	19980729
JP 3632947	B2	20050330		
JP 2000063360	A	20000229	JP 1998-235438	19980821

JP 3697075	B2	20050921			
AU 9949289	A1	20000221	AU 1999-49289		19990728
AU 750129	B2	20020711			
EP 1101760	A1	20010523	EP 1999-933128		19990728
EP 1101760	B1	20031015			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO					
BR 9912494	A	20020409	BR 1999-12494		19990728
EP 1361218	A1	20031112	EP 2003-5151		19990728
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY					
AT 252088	T	20031115	AT 1999-933128		19990728
RU 2225861	C2	20040320	RU 2001-105533		19990728
ES 2209466	T3	20040616	ES 1999-933128		19990728
TW 221471	B	20041001	TW 1999-88112867		19990729
US 6458748	B1	20021001	US 2001-744209		20010122
PRIORITY APPLN. INFO.:			JP 1998-214635	A	19980729
			JP 1998-235438	A	19980821
			EP 1999-933128	A3	19990728
			WO 1999-JP4043	W	19990728

OTHER SOURCE(S): MARPAT 132:151829

GI



I

AB Described are N-(di- or tri-fluoromethanesulfonyl)-2-[(4,6-dimethoxypyrimidin-2-yl)hydroxymethyl]aniline compds. (I; wherein R1 is hydrogen, alkyl or alkoxyalkyl; and R2 is hydrogen when R1 is hydrogen or alkyl, while R2 is hydrogen or fluoro when R1 is alkoxyalkyl) useful as herbicides which are effective in controlling a wide variety of lowland weeds including difficultly controllable ones and safe for mammals; process for the preparation of them; herbicides containing them as the active ingredient; and novel compds. to be used in the process as the raw material. Thus, 3.6 g difluoromethanesulfonyl chloride was added dropwise to a solution of 4.0 g 2-[(4,6-dimethoxypyrimidin-2-yl)hydroxymethyl]-6-(methoxymethyl)aniline and 2.0 g pyridine in 30 mL CH2Cl2 and stirred at room temperature for 7 days to give 36% I (R1 = methoxymethyl, R2 = H). The latter compound at 1.6 g/10 are preemergence ≥90% Echinochloa crus-galli, Monochoria vaginalis, and Scirpus juncoides in flooded paddy soil and did not damage rice seedlings.

IT 1512-30-7, Difluoromethanesulfonyl chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of N-(di- or tri-fluoromethanesulfonyl)aniline derivs. as herbicides)

RN 1512-30-7 CAPLUS

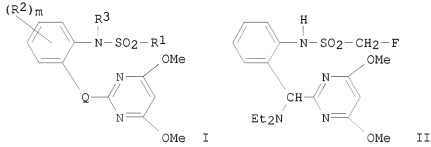
CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

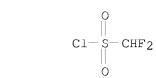
L6 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:147774 CAPLUS
DOCUMENT NUMBER: 130:223289
TITLE: Preparation of sulfonanilide moiety containing pyrimidine derivatives as herbicides
INVENTOR(S): Yoshimura, Isao; Miyazaki, Masahiro; Suzuki, Senji; Nakaya, Masao; Tamaru, Masatoshi; Ono, Yoshimasa; Ida, Tomohisa; Yanagisawa, Katsutada; Sadohara, Hideo
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd., Japan; Ihara Chemical Industry Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 57 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
JP 11060562	A	19990302	JP 1998-173980		19980605
PRIORITY APPLN. INFO.:			JP 1997-169454	A	19970611

OTHER SOURCE(S): MARPAT 130:223289
GI



AB The title compds. I [R1 = (un)substituted alkyl, etc.; R2 = H, halo, etc.; R3 = H, alkyl, etc.; Q = CH(NR4R5), etc.; m = 1 -4; R4, R5 = H, alkyl, etc.] are prepared The title compound II (at 100 g/10 area) gave ≥ 90% control of Scirpus juncoides.
IT 1512-30-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of sulfonanilide moiety containing pyrimidine derivs. as herbicides)
RN 1512-30-7 CAPLUS
CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:130426 CAPLUS
DOCUMENT NUMBER: 130:184069
TITLE: Preparation of bis(fluoroalkylenesulfonyl) imides and (fluoroalkylsulfony) (fluorosulfonyl) imides
INVENTOR(S): Howells, Richard D.; Lamanna, William M.; Fanta, Alan D.; Waddell, Jennifer
PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Company, USA
SOURCE: U.S., 10 pp., Cont.-in-part of U.S. Ser. No. 398,859. CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5874616	A	19990223	US 1995-577425	19951222
US 5514493	A	19960507	US 1995-398859	19950306
CA 2238619	A1	19970703	CA 1996-2238619	19961209
CA 2238619	C	20060808		
WO 9723448	A1	19970703	WO 1996-US19532	19961209
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9711301	A	19970717	AU 1997-11301	19961209
EP 904265	A1	19990331	EP 1996-942154	19961209
EP 904265	B1	20010418		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
ES 2155632	T3	20010516	ES 1996-942154	19961209

PRIORITY APPLN. INFO.: US 1995-398859 A2 19950306
US 1995-577425 A 19951222
WO 1996-US19532 W 19961209

AB A method includes reacting a fluoroalkylsulfonamide with a fluoroalkylsulfonyl halide or a fluorosulfonyl halide in the presence of a nonnucleophilic base. A reaction is ZRfSO2NH2 + ZR'fSO2X + 2B → (ZRfSO2)(ZR'fSO2)N-.BH+ + BHX, where each Z is F or a polymerizable organic functional group, Rf and R'f are fluoroalkylene groups optionally containing catenary O or N, X is a halogen, and B is a nonnucleophilic base. Thus, 35.00 g CF3SO2NH2, 98 mL Et3N, and 74.55 g C4F9SO2F were heated to prepare HN(SO2CF3)(SO2C4F9) and treated with Li2CO3 to give Li trifluoromethanesulfonyl perfluorobutanesulfonyl imide.

IT 1512-30-7, Difluoromethanesulfonyl chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of bis(fluoroalkylenesulfonyl) imides and fluoroalkylsulfony fluorosulfonyl imides)

RN 1512-30-7 CAPLUS
CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1997:503575 CAPLUS
DOCUMENT NUMBER: 127:136181
TITLE: Preparation of bis(fluoroalkylenesulfonyl)imides and (fluoroalkylsulfonyl) (fluorosulfonyl)imides
INVENTOR(S): Howells, Richard D.; Lamanna, William M.; Fanta, Alan D.; Waddell, Jennifer E.
PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Company, USA
SOURCE: PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9723448	A1	19970703	WO 1996-US19532	19961209
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5874616	A	19990223	US 1995-577425	19951222
CA 2238619	A1	19970703	CA 1996-2238619	19961209
CA 2238619	C	20060808		
AU 9711301	A	19970717	AU 1997-11301	19961209
EP 904265	A1	19990331	EP 1996-942154	19961209
EP 904265	B1	20010418		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

PRIORITY APPLN. INFO.: US 1995-577425 A 19951222
US 1995-398859 A2 19950306
WO 1996-US19532 W 19961209

AB Fluoroalkylsulfonyl imides are prepared by reacting a fluoroalkylisulfonamide with a fluoroalkylsulfonyl halide or a fluorosulfonyl halide in the presence of a non-nucleophilic base, e.g., ZRfSO2NH2 + ZR'fSO2X + 2B → (ZRfSO2)(ZR'fSO2)N-·BH+ + BHX (Z = F or a polymerizable organic functional group; Rf, R'f = fluoroalkylene groups optionally containing catenary oxygen or nitrogen; X = halogen; B = non-nucleophilic base). Unsym. imides and polymeric imides can be prepared H2NSO2(CF2)4SO2NH2 1.995, FSO2(CF2)3SO2F 1.751, and triethylamine 3.363 g in 5 mL MeCN were stirred at 65° overnight, then at 75° for 8 h and worked up to obtain 2.2 g polymer with bimodal mol. weight distribution at Mn 19670 and 4240.

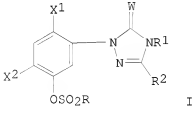
IT 1512-30-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of bis(fluoroalkylenesulfonyl)imides and (fluoroalkylsulfonyl)

(fluorosulfonyl)imides)
RN 1512-30-7 CAPLUS
CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1988:94570 CAPLUS
DOCUMENT NUMBER: 108:94570
ORIGINAL REFERENCE NO.: 108:15559a,15562a
TITLE: Preparation of [(sulfonyloxy)aryl]triazolinones and -thiones as herbicides
INVENTOR(S): Maravetz, Lester L.
PATENT ASSIGNEE(S): FMC Corp. , USA
SOURCE: U.S., 20 pp. Cont.-in-part of U.S. Ser. No. 650,755, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4705557	A	19871110	US 1986-829541	19860210
US 4919708	A	19900424	US 1989-372207	19890626
PRIORITY APPLN. INFO.:			US 1983-533013	A2 19830915
			US 1984-650755	A2 19840913
			US 1983-541596	B2 19831013
			US 1984-655960	B2 19840928
			US 1984-666933	B2 19841031
			US 1985-697619	B2 19850204
			US 1986-825520	B1 19860203
			US 1987-102303	B1 19870925

OTHER SOURCE(S): CASREACT 108:94570
GI



I

AB The title compds. (I; X1, X2 = halo, haloalkyl, alkyl; R = alkyl, haloalkyl, cyanoalkyl, etc.; R1 = R, alkenyl, alkynyl, alkoxyalkyl, alkylsulfonylalkyl, etc.; R2 = R, arylalkyl, alkoxyalkynyl, dialkylsulfoxide, etc.; W = O, S) were prepared as herbicides. 1-(2,4-Dichloro-5-hydroxyphenyl)-3-methyl-4-(2-propenyl)-Δ2-1,2,4-triazolin-5-one and Et3N were dissolved in THF and chloromethanesulfonyl

chloride was added dropwise to give 1-(2,4-dichloro-5-chloromethylsulfonyloxyphenyl)-3-methyl-4-(2-propenyl)-Δ2-1,2,4-triazolin-5-one. The latter at 8.0 kg/ha preemergent gave a 100% kill of velvetleaf, morningglory, green foxtail, and johnson grass while having either a slight effect or no effect at all on cotton, soybeans, field corn, rice, and wheat.

IT 1512-30-7, Difluoromethanesulfonyl chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(sulfonylation by, of (hydroxyphenyl)triazolinone derivative, in preparation of herbicide)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1985:522952 CAPLUS

DOCUMENT NUMBER: 103:122952

ORIGINAL REFERENCE NO.: 103:19657a,19660a

TITLE: Reactions of halogenated methanesulfonyl chlorides with trimethylamine and an inverse sulfene-amine adduct.

AUTHOR(S): Rheude, Udo; Sundermeyer, Wolfgang

CORPORATE SOURCE: Anorg.-Chem. Inst., Univ. Heidelberg, Heidelberg, D-6900/1, Fed. Rep. Ger.

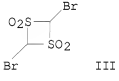
SOURCE: Chemische Berichte (1985), 118(6), 2208-19
CODEN: CHBEAM; ISSN: 0009-2940

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 103:122952

GI



III

AB BrCH2Cl reacted with KF to give FCH2Cl which reacted with, e.g., Ph2CHSH to give Ph2CHSCH2SH. This was oxidized with Cl-H2O to give FCH2SO2Cl (I). I formed the adduct Me3N+CHFSO2- with Me3N. BrCH2SO2Cl gave mainly BrCH2SO2C-RSO2N+Me3 (II, R = H), along with some II (R = Br). Several other reactions were studied; e.g., the dithietane III was prepared

IT 1512-30-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with trimethylamine)

RN 1512-30-7 CAPLUS

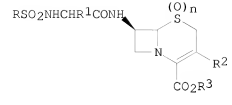
CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1984:209513 CAPLUS
DOCUMENT NUMBER: 100:209513
ORIGINAL REFERENCE NO.: 100:31807a,31810a
TITLE: Cephalosporin derivatives and their pharmaceutical compositions
INVENTOR(S): Kocsis, Karoly; Wiederkehr, Rene; Wehrli, Hansuli
PATENT ASSIGNEE(S): Ciba-Geigy A.-G. , Switz.
SOURCE: Eur. Pat. Appl., 287 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

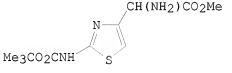
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 92830	A2	19831102	EP 1983-104037	19830425
EP 92830	A3	19841227		
R: AT, BE, CH, DE, FR, IT, LI, LU, NL, SE				
FI 8301381	A	19831028	FI 1983-1381	19830422
GB 2118942	A	19831109	GB 1983-11222	19830425
GB 2118942	B	19850724		
ES 521824	A1	19850501	ES 1983-521824	19830425
DK 8301853	A	19831028	DK 1983-1853	19830426
NO 8301470	A	19831028	NO 1983-1470	19830426
AU 8313951	A	19831103	AU 1983-13951	19830426
HU 28778	A2	19831228	HU 1983-1436	19830426
HU 188459	B	19860428		
DD 207720	A5	19840314	DD 1983-250223	19830426
ZA 8302918	A	19840829	ZA 1983-2918	19830426
JP 58194891	A	19831112	JP 1983-73135	19830427
ES 535195	A1	19850801	ES 1984-535195	19840816

PRIORITY APPLN. INFO.: CH 1982-2568 A 19820427
CH 1982-6504 A 19821109

OTHER SOURCE(S): MARPAT 100:209513
GI



I



III

AB Cephalosporins I [R = C-bonded organic; R1 = heterocyclic; R2 = H, (un)substituted alkyl, alkoxy, halogen; R3 = H, protective group; n = 0-2] were prepared Thus (2S)-I (R = Me, R1 = 2-amino-4-thiazolyl, R2 = H, R3 = Na, II) was prepared from thiazolylacetate III and benzhydryl 7-amino-3-cephem-4-carboxylate in 4 steps. II had a min. inhibitory concentration against Escherichia coli 205 of 0.02 μg/mL.

IT 1512-30-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with aminoethanesulfonylaminoacetate)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1979:203430 CAPLUS

DOCUMENT NUMBER: 90:203430

ORIGINAL REFERENCE NO.: 90:32349a,32352a

TITLE: Fluoroalkanesulfonyl chlorides

AUTHOR(S): Moore, George G. I.

CORPORATE SOURCE: Riker Lab., Inc., St. Paul, MN, USA

SOURCE: Journal of Organic Chemistry (1979), 44(10), 1708-11
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

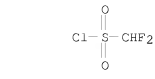
LANGUAGE: English

AB FCHRSO2Cl (R = H, F) were prepared in 49% overall yields by treating FCHRCl with PhCH2SH-NaOH in DMF, followed by oxidative chlorination in cold H2O. Despite identical conditions and yields, the reactions of PhCH2SNa with FCH2Cl and F2CHCl proceed through SN2 and carbene paths, resp., as indicated by alkylation in NaOD. The oxidative chlorination of F2CHSCH2Ph occurs at least 50% via the sulfoxide. In situ generation of PhCH2SNa gave a 39% overall yield of F2CHSO2Cl.

IT 1512-30-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 1512-30-7 CAPLUS

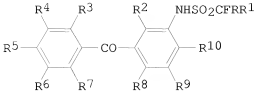
CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



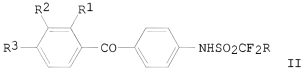
L6 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1977:139625 CAPLUS
DOCUMENT NUMBER: 86:139625
ORIGINAL REFERENCE NO.: 86:21913a,21916a
TITLE: (Fluoromethanesulfonamido)benzophenones
INVENTOR(S): Robertson, Jerry E.; Harrington, Joseph K.; Kvam, Donald C.
PATENT ASSIGNEE(S): Riker Laboratories, Inc., USA
SOURCE: U. S. Reissue, 9 pp. Reissue of U.S. 3,576,866. CODEN: UUXXA2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 9
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 29032	E	19761109	US 1975-632572	19751117
GB 1251504	A	19711027	GB 1968-52348	19681105
CH 547265	A	19740329	CH 1968-17589	19681126
BR 6906155	D0	19730313	BR 1969-206155	19690205
US 3576866	A	19710427	US 1969-832824	19690612
US 3758688	A	19730911	US 1972-256377	19720524
PRIORITY APPLN. INFO.:			US 1966-588338 A2	19661021
			US 1968-719741 A2	19680408
			US 1969-832824 A5	19690612
			GB 1967-47927 A	19671020
			US 1970-45413 A2	19700611

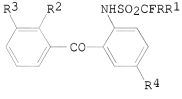
OTHER SOURCE(S): MARPAT 86:139625
GI



I



II



III

AB 3-Aminobenzophenones were treated with RCR1FSO2X (R = H, F; R1 = H, F, CHF2, CHFCF3, CF2CF2CF3; X = Cl, F) and (CF3SO2)2O, and tertiary amines, to give sixty, resp., 3-(fluoromethanesulfonamido)benzophenones I (R2 = H, Cl, Me, OMe; R3 = H, Me, Cl, OMe, CF3; R4 = H, Me, Cl, F, CF3; R5 = H, Cl-4 alkyl, Cl, OMe, OBu, F, OCF3; R6 = H, OMe, Me; R7 = H, Me; R8 = H, Cl, OMe, Br; R9 = H, Cl, Me, OMe; R10 = H, Cl, Me, OMe). Similarly prepared were five 4-sulfonamido isomers II (R = H, F; R1 = H, Cl; R2 = H, Cl; R3 = H, Cl) and seven 2-isomers III (R = H, F; R1 = F, H; R2 = H, Cl; R3 = H, Me; R4 = H, Cl). I, II, and III are useful as antiinflammatory, analgesic, and antipyretic agents (no data).

IT 1512-30-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(amidation of, by aminobenzophenones)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1976:462813 CAPLUS

DOCUMENT NUMBER: 85:62813

ORIGINAL REFERENCE NO.: 85:10105a,10108a

TITLE: Acylamides of β-cyanoethenesulfonyl-substituted aminoarenes

INVENTOR(S): Richter, Sven U. K. A.; Tsolis, Alexandros K.; Tsolis, Elefteria A.

PATENT ASSIGNEE(S): Sanitized, Inc., USA

SOURCE: U.S., 24 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3943154	A	19760309	US 1973-337637	19730302
CA 1051018	A1	19790320	CA 1974-193883	19740301

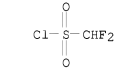
PRIORITY APPLN. INFO.: US 1973-337637 A 19730302

AB R[R1S(O)nNH]C6H3SO2CH:CHR2 (I; R = H, Me, Cl, etc; R1 = Ph, Me, CF3, 2,4,6-Me3C6H2, etc; R2 = CN, CONH2, CO2Et; n = 0, 1, 2), 4-R2P(O)NHC6H4SO2CH:CHR1 (II; R = aziridinyl, EtO, HO, MeN, etc.) and related compds. were prepared by the reaction of an acid halide with an (aminophenylsulfonyl)vinyl compound Thus, 4-H2NC6H4SO2CH:CHCN was added to cooled MeSO2Cl in HCCl3, followed by the addition of pyridine, and the mixture was kept at room temperature for 48 hr to give 4-(MeSO2NH)C6H4SO2CH:CHCN. I and II are useful as bactericides and fungicides; test data were given.

IT 1512-30-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (aminophenylsulfonyl)acrylonitrile)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1975:16579 CAPLUS
DOCUMENT NUMBER: 82:16579
ORIGINAL REFERENCE NO.: 82:2645a,2648a
TITLE: Haloalkylsulfonamido-substituted tolan and stilbene compounds
INVENTOR(S): Moore, George G. I.; Trancik, Ronald J.
PATENT ASSIGNEE(S): Riker Laboratories, Inc.
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3840527	A	19741008	US 1971-172261	19710816

PRIORITY APPLN. INFO.: US 1971-172261 19710816

AB 2,5-R2C6H3ZC6-H4NR1SO2CF3 (I; R = MeO; R1 = H, EtO2C, F2CHSO2, CN; Z = CH:CH, CMe:CH, C.tplbond.C) were prepared by the reaction of 2,5-R2C6H3ZC6H4NH2 with (CF3SO2)2O, followed by reaction with R1Cl. Thus, 3.34 g trans-2-H2NC6H4CH:CHPh reacted with 4.9 g (CF3SO2)2O in 25 ml CH2Cl2 and 2.7 ml Et3N at 0° to give trans-2-(F3CSO2NH)C6H4CH:CHPh, which reacted with ClCO2Et to give trans-2-(PhCH:CH)C6H4N(CO2Et)SO2CF3. I were useful as antiinflammatory agents and herbicides (no data).

IT 1512-30-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with [[(trifluoromethyl)sulfonyl]amino]stilbene)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)

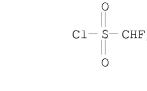
L6 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1972:419402 CAPLUS
DOCUMENT NUMBER: 77:19402
ORIGINAL REFERENCE NO.: 77:3245a,3248a
TITLE: Fluoroalkylsulfonamidoaryl compounds as plant growth regulators
INVENTOR(S): Moore, George G. I.; Harrington, Joseph K.
PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co.
SOURCE: Ger. Offen., 57 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2118190	A	19720309	DE 1971-2118190	19710408
DE 2118190	C2	19821125		
NL 7104420	A	19711015	NL 1971-4420	19710402
NL 174644	B	19840216		
NL 174644	C	19840716		
CH 557804	A	19750115	CH 1971-5144	19710408
CA 1010890	A1	19770524	CA 1971-110036	19710408
BE 765558	A1	19711011	BE 1971-102037	19710409
FR 2097745	A5	19720303	FR 1971-12702	19710409
JP 54011297	B	19790514	JP 1971-23004	19710412
GB 1306564	A	19730214	GB 1971-26681	19710419
JP 56040685	B	19810922	JP 1977-85723	19770719
JP 55015474	B	19800423	JP 1978-45455	19780419
PRIORITY APPLN. INFO.:			US 1970-28148	19700413
			US 1971-118476	19710224

AB Trifluoromethanesulfonylanilides (I) substituted in the 2-, 3-, of 4-position by arylthio, aryloxy, arylsulfonyl, or arylsulfinyl groups, and in other positions by Cl, Me, CF3, MeO, NO2, or NH2 are active against cyprus grass (Cyperus esculentus and C. rotundus). Phenoxy-substituted I have antiinflammatory properties. 3-PhSC6H4NHSO2CF3 was prepared by treating 3-PhSC6H4NH2 with CF3SO2Cl in the presence of Et3N. Various methods were used to prepare .apprx.250 other I.

IT 1512-30-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with aniline derivs.)

RN 1512-30-7 CAPLUS
CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1961:2452 CAPLUS
DOCUMENT NUMBER: 55:2452
ORIGINAL REFERENCE NO.: 55:445g-i,446a-c
TITLE: Arylamides of halogenated methane- and ethanesulfonic acids
AUTHOR(S): Farrar, W. V.
CORPORATE SOURCE: Imp. Chem. Ind. Ltd., Manchester, UK
SOURCE: Journal of the Chemical Society (1960) 3058-62
CODEN: JCSOA9; ISSN: 0368-1769
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB Reaction of RSO2Cl with ArNH2, either with or without C5H5N present, gave ArNHSO2R. Pure ClCH2SO2Cl (I) (198 g.) was best prepared by heating 258 g. ClCH2SO3Na with 340 g. PCl5 2 hrs. at 100°; I was used for the preparation of the following ArNHSO2CH2Cl (Ar, % yield, and m.p. given): p-ClC6H4, 79, 106°, with p-ClC6H5N(SO2CH2Cl)2, 7, 124°, as the sole by-product; 2,4-Cl2C6H3-, -, 108°; 2,4,5-Cl3C6H2-,-, 114°. Their rates of alkaline hydrolysis varied. The Na salt from 25 g. 2,4,5-Cl3C6H2SO2NH2 and 15 g. I was refluxed 16 hrs. in 200 ml. C6H6 to form 15 g. Na salt (II), m. 280-2°, of 2,3,5-Cl3C6H2SO2NHSO2CH2Cl (III). With HCl, II gave III, m. 155-6°, stable to hot aqueous alkali. PhNHSO2CH2Br, m. 77°, and PhNHSO2CH2I, m. 70°, prepared from BrCH2SO2Cl and ICH2SO2Cl, resp., were decomposed by aqueous NaOH. CHCl2SO2Cl (IV) was prepared by heating PCl5 with CHCl2SO3Na, which (25 g.) was obtained by heating 120 g. CHCl3, 250 g. Na2SO3. 7H2O, and 800 g. H2O 5 hrs. at 125° and 100 lb./sq. in. IV gave 65% PhNHSO2CHCl2, m. 78°, and 65% p-ClC6H4NHSO2CHCl2 (V), m. 103°, with 2% p-ClC6H4N(SO2CHCl2)2, m. 230° (decomposition), and a little (p-ClC6H4)2NCH:NH.HCl. V was rapidly decomposed at 100° by N Na2CO3 to mainly p-ClC6H4NC. IV gave 8% 2,4,5-Cl3C6H2NHSO2CHCl2, m. 168°, and much tar. Oxidation of 3 g. p-ClC6H4NHSCCl3, m. 49°, with H2O2 gave 1.95 g. unstable sulfenanilide, m. 157-8° (decomposition), while oxidation by KMnO4 gave 1.2 g. sulfonanilide, m. 147°, which decomposed in 10% aqueous Na2CO3 at 100° to p-ClC6H4NH2, (p-ClC6H4NH)2CO, and (p-ClC6H4NH)2C:NC6H4Cl-p. CHF2SO3Na (VI) (34.5 g.) was prepared from 86 g. CHClF2, 250 g. Na2SO3.7H2O, and 500 g. H2O (20 hrs. at 120° and 230 lb./sq. in.); PCl5 converted it to CHF2SO2Cl, not isolated but used to prepare PhNHSO2CHF2, m. 59°, p-ClC6H4NHSO2CHF2, m. 92°, and 2,4-Cl2C6H3NHSO2CHF2, m. 94°. VI and CHClF2 gave a mixture of CH2FSO3Na and CHClFSO3Na, converted into a mixture of PhNHSO2CH2F, m. 86.5°, and PhNHSO2CHClF, m. 63°, separated by crystallization Chlorination of a mixt of the p-chloroanilides, obtained similarly, gave p-ClC6H4NHSO2CHClF, m. 78°, and 2,4-Cl2C6H3NHSO2CH2F. All the F-containing arylamides were stable to alkali. MeCHClSO2Cl gave PhNHSO2CHClMe, m. 70°. ClCH2CH2SO2Cl gave p-ClC6H4NHSO2CH:CH2, m. 50°, p-ClC6H4NHSO2CH2HC2Cl, m. 78°, and p-ClC6H4NHSO2CH2CH2C6H4Cl-p, m. 86°.

IT 1512-30-7P, Methanesulfonyl chloride, difluoro-
RL: PREP (Preparation)
(preparation of)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)

```
=> FIL STNGUIDE
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     99.06     229.23

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -14.40     -14.40

FILE 'STNGUIDE' ENTERED AT 19:53:04 ON 21 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 18, 2008 (20080418/UP).

=>
Connecting via Winsock to STN



Welcome to STN International!  Enter x:X

LOGINID:ssptasxs1626

PASSWORD:
```